

CFBF-P01-022_ST25.txt
SEQUENCE LISTING

<110> CBR Institute for Biomedical Research, Inc.
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Cohen, Edward H.

<120> CONFORMATION SPECIFIC ANTIBODIES

<130> CFBF-P01-022

<140> 10/589,956

<141> 2005-02-22

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<170> PatentIn version 3.4

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Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
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 35 40 45

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Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ser
85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Glu Val Gln Leu
100 105 110

Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
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Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr Val Met Trp Trp
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Met Val Thr Val Ser Ser Asp Ile Gln Met Thr Gln Ser Pro Ala Thr
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Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
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Phe Thr Phe Ser His Tyr Gly Met Ser Trp Val Arg Gln Ala Pro Gly
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Val Ser Ser Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro
50 55 60

Gly Gln Thr Ala Ser Val Thr Cys Ser Gly Asp Ala Leu Gly Gln Lys
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Thr Val Leu Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
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Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
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 20 25 30

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 Page 10

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Val Leu Gln Val Gly Asn Gly Val Ile Val Gly Ala Pro Gly Glu Gly
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Asn Ser Thr Gly Ser Leu Tyr Gln Cys Gln Ser Gly Thr Gly His Cys
 65 70 75 80

Leu Pro Val Thr Leu Arg Gly Ser Asn Tyr Thr Ser Lys Tyr Leu Gly
 85 90 95

Met Thr Leu Ala Thr Asp Pro Thr Asp Gly Ser Ile Leu Ala Cys Asp
 100 105 110

Pro Gly Leu Ser Arg Thr Cys Asp Gln Asn Thr Tyr Leu Ser Gly Leu
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Ser Asp Tyr Val Lys Trp Lys Asp Pro Asp Ala Leu Leu Lys His Val
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Ile Asp Ala Ala Lys Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys
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Gly Ala Lys Asp Trp Ala Gly Gly Phe Leu Asp Leu Lys Ala Asp Leu
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Val Leu Leu Phe Gln Glu Pro Gln Gly Gly Gly His Trp Ser Gln Val
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Gln Thr Ile His Gly Thr Gln Ile Gly Ser Tyr Phe Gly Gly Glu Leu
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Tyr Gln Arg Arg Gln Leu Gly Phe Glu Glu Val Ser Glu Leu Gln Gly
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Asp Pro Gly Tyr Pro Leu Gly Arg Phe Gly Glu Ala Ile Thr Ala Leu
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Thr Asp Ile Asn Gly Asp Gly Leu Val Asp Val Ala Val Gly Ala Pro
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 580 585 590
 Gly Asp Gly Leu Ala Asp Val Ala Val Gly Ala Glu Ser Gln Met Ile
 595 600 605
 Val Leu Ser Ser Arg Pro Val Val Asp Met Val Thr Leu Met Ser Phe
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 Ser Pro Ala Glu Ile Pro Val His Glu Val Glu Cys Ser Tyr Ser Thr
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 Ser Asn Lys Met Lys Glu Gly Val Asn Ile Thr Ile Cys Phe Gln Ile
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 Lys Ser Leu Tyr Pro Gln Phe Gln Gly Arg Leu Val Ala Asn Leu Thr
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 Tyr Thr Leu Gln Leu Asp Gly His Arg Thr Arg Arg Arg Gly Leu Phe
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 Pro Gly Gly Arg His Glu Leu Arg Arg Asn Ile Ala Val Thr Thr Ser
 690 695 700
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 705 710 715 720
 Leu Ile Ser Pro Ile Asn Val Ser Leu Asn Phe Ser Leu Trp Glu Glu
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 Glu Gly Thr Pro Arg Asp Gln Arg Ala Gln Gly Lys Asp Ile Pro Pro
 740 745 750
 Leu Leu Arg Pro Ser Leu His Ser Glu Thr Trp Glu Ile Pro Phe Glu
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 Phe Ser Pro Ala Arg Ser Arg Ala Leu Arg Leu Thr Ala Phe Ala Ser
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 Val Gln Leu Asp Leu His Phe Pro Pro Gly Leu Ser Phe Arg Lys Val
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 Ser Pro Ile Phe Lys Ala Gly His Ser Val Ala Leu Gln Met Met Phe
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 Asn Val Thr Cys Asn Asn Glu Asp Ser Asp Leu Leu Glu Asp Asn Ser
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 Ala Thr Thr Ile Ile Pro Ile Leu Tyr Pro Ile Asn Ile Leu Ile Gln
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 Asp Gln Glu Asp Ser Thr Leu Tyr Val Ser Phe Thr Pro Lys Gly Pro
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 Lys Ile His Gln Val Lys His Met Tyr Gln Val Arg Ile Gln Pro Ser
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 Ile His Asp His Asn Ile Pro Thr Leu Glu Ala Val Val Gly Val Pro
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 Gln Pro Pro Ser Glu Gly Pro Ile Thr His Gln Trp Ser Val Gln Met
 980 985 990
 Glu Pro Pro Val Pro Cys His Tyr Glu Asp Leu Glu Arg Leu Pro Asp
 995 1000 1005
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Gly Gly Leu Leu Leu Leu Leu Leu Ile Phe Ile Val Leu Tyr Lys
1100 1105 1110

Val Gly Phe Phe Lys Arg Asn Leu Lys Glu Lys Met Glu Ala Gly
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35 40 45

Leu Asn Phe Thr Gly Pro Gly Asp Pro Asp Ser Ile Arg Cys Asp Thr
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Arg Pro Gln Leu Leu Met Arg Gly Cys Ala Ala Asp Asp Ile Met Asp
65 70 75 80

Pro Thr Ser Leu Ala Glu Thr Gln Glu Asp His Asn Gly Gly Gln Lys
Page 15

Gln Leu Ser Pro Gln Lys Val Thr Leu Tyr Leu Arg Pro Gly Gln Ala
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 Ala Ala Phe Asn Val Thr Phe Arg Arg Ala Lys Gly Tyr Pro Ile Asp
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 Asn Val Lys Lys Leu Gly Gly Asp Leu Leu Arg Ala Leu Asn Glu Leu
 145 150 155 160
 Thr Glu Ser Gly Arg Ile Gly Phe Gly Ser Phe Val Asp Lys Thr Val
 165 170 175
 Leu Pro Phe Val Asn Thr Ile Ile Pro Asp Lys Leu Arg Asn Pro Cys
 180 185 190
 Pro Asn Lys Glu Lys Glu Cys Gln Pro Pro Phe Ala Phe Arg His Val
 195 200 205
 Leu Lys Leu Thr Asn Asn Ser Asn Gln Phe Gln Thr Glu Val Gly Lys
 210 215 220
 Gln Leu Ile Ser Gly Asn Leu Asp Ala Pro Glu Gly Gly Leu Asp Ala
 225 230 235 240
 Met Met Gln Val Ala Ala Cys Pro Glu Glu Ile Gly Trp Arg Asn Val
 245 250 255
 Thr Arg Leu Leu Val Phe Ala Thr Asp Asp Gly Phe His Phe Ala Gly
 260 265 270
 Asp Gly Lys Leu Gly Ala Ile Leu Thr Pro Asn Asp Gly Arg Cys His
 275 280 285
 Leu Glu Asp Asn Leu Tyr Lys Arg Ser Asn Glu Phe Asp Val Pro Ser
 290 295 300
 Val Gly Gln Leu Ala His Lys Leu Ala Glu Asn Asn Ile Gln Pro Ile
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 Phe Ala Val Thr Ser Arg Met Val Lys Thr Tyr Glu Lys Leu Thr Glu
 325 330 335

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Phe Leu Asp His Asn Ala Leu Pro Asp Thr Leu Lys Val Thr Tyr Asp
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Cys Asp Gly Val Gln Ile Asn Val Pro Ile Thr Phe Gln Val Lys Val
 405 410 415

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Arg Cys Arg Asp Gln Ser Arg Asp Arg Ser Leu Cys His Gly Lys Gly
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Cys Val Cys Gly Gln Cys Leu Cys His Thr Ser Asp Val Pro Gly Lys
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Gln Leu Pro Leu Cys Gln Glu Cys Pro Gly Cys Pro Ser Pro Cys Gly
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Pro Val Lys Gly Arg Thr Cys Lys Glu Arg Asp Ser Glu Gly Cys Trp
660 665 670

Val Ala Tyr Thr Leu Glu Gln Gln Asp Gly Met Asp Arg Tyr Leu Ile
675 680 685

Tyr Val Asp Glu Ser Arg Glu Cys Val Ala Gly Pro Asn Ile Ala Ala
690 695 700

Asn Gly Gly Thr Val Ala Gly Ile Val Leu Ile Gly Ile Leu Leu Leu
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725 730 735

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Lys Leu Ser Asn Thr Ser Tyr Gln Phe Ala Ala Val Gln Phe Ser Thr
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 His His His His His His His His His His His His His His Thr Thr
 65 70 75 80
 Thr Ser Ser Glu Glu Glu Glu Glu Glu Glu Ser Ser Ser Tyr Lys
 85 90 95
 Thr Glu Phe Asp Phe Ser Asp Tyr Val Lys Arg Lys Asp Pro Asp Ala
 100 105 110
 Leu Leu Lys His Val Lys His Met Leu Leu Leu Thr Asn Thr Phe Gly
 115 120 125
 Ala Ile Asn Tyr Val Ala Thr Glu Val Phe Arg Glu Glu Leu Gly Ala
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 180 185 190
 Ile Ile Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Asn Ile Asp Ala
 195 200 205
 Ala Lys Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys His Phe Gln
 210 215 220
 Thr Lys Glu Ser Gln Glu Thr Leu His Lys Thr Thr Ser Glu Glu Glu
 225 230 235 240
 Glu Glu Glu Glu Glu Ser Ser Gly Gly Gly Thr Thr Ser Glu Glu Glu
 245 250 255
 Glu Glu Glu Ser Ser Ser Thr Thr Thr Gly Gly Gly Gly Thr Thr Phe
 260 265 270
 Ala Ser Lys Pro Ala Ser Glu Phe Val Lys Ile Leu Asp Thr Phe Glu
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Tyr Leu Asn Trp Tyr Gln Gln Lys Thr Gly Lys Ala Pro Lys Ala Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Leu Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
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Lys Arg Thr
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Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Val Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser
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Gly Ser Gly Ser Gly Thr Ala Phe Thr Leu Thr Ile Asp Ser Leu Gln
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35 40 45

Pro Val Leu Val Ile Phe Gln Asp Ser Lys Arg Pro Ser Gly Ile Pro
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Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile
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Val Leu

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35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Thr Ile Ala Asp Ser Val
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Leu Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

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Page 23

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35 40 45
Ser Tyr Ile Gly Ser Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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115 120

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 35 40 45

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Gly Cys Thr Cys Thr Gly Gly Ala Gly Ala Thr Gly Cys Ala Thr Thr
 65 70 75 80

Gly Gly Gly Ala Cys Ala Ala Ala Ala Ala Thr Ala Thr Gly Cys Thr
 85 90 95

Thr Cys Cys Thr Gly Gly Thr Ala Thr Cys Ala Ala Cys Ala Gly Ala
 100 105 110

Ala Gly Cys Cys Ala Gly Gly Cys Cys Ala Gly Thr Cys Cys Cys Cys
 115 120 125

Thr Gly Thr Ala Cys Thr Gly Gly Thr Cys Ala Thr Cys Thr Thr Thr
 130 135 140

Cys Ala Ala Gly Ala Thr Thr Cys Cys Ala Ala Gly Cys Gly Gly Cys
 145 150 155 160

Cys Cys Thr Cys Ala Gly Gly Gly Ala Thr Cys Cys Cys Thr Gly Ala
 165 170 175

Gly Cys Gly Gly Thr Thr Cys Thr Cys Thr Gly Gly Cys Thr Cys Cys
 180 185 190

Ala Ala Thr Thr Cys Thr Gly Gly Gly Ala Ala Cys Ala Cys Ala Gly
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Cys Cys Ala Cys Thr Cys Thr Gly Ala Cys Cys Ala Thr Cys Ala Gly
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Cys Ala Cys Thr Ala Cys Ala Gly Cys Thr Thr Ala Thr Gly Thr Cys
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Thr Cys Thr Thr Thr Ala Cys Gly Thr Cys Thr Thr Thr Cys Thr Thr
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Gly Cys Gly Cys Thr Gly Cys Thr Thr Cys Cys Gly Gly Ala Thr Thr
 65 70 75 80

Cys Ala Cys Thr Thr Thr Cys Thr Cys Thr Cys Gly Thr Thr Ala Cys
 85 90 95

Gly Thr Thr Ala Thr Gly Thr Gly Gly Thr Gly Gly Gly Thr Thr Cys
 100 105 110

Gly Cys Cys Ala Ala Gly Cys Thr Cys Cys Thr Gly Gly Thr Ala Ala
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 Ala Gly Gly Thr Thr Thr Gly Gly Ala Gly Thr Gly Gly Gly Thr Thr
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 Ala Ala Ala Gly Gly Thr Cys Gly Cys Thr Thr Cys Ala Cys Thr Ala
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 Thr Cys Thr Cys Thr Ala Gly Ala Gly Ala Cys Ala Ala Cys Thr Cys
 210 215 220
 Thr Ala Ala Gly Ala Ala Thr Ala Cys Thr Cys Thr Cys Thr Ala Cys
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 Thr Thr Gly Cys Ala Gly Ala Thr Gly Ala Ala Cys Ala Gly Cys Thr
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 275 280 285
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360

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Ser

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<400> 46

Tyr Trp Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser
 1 5 10 15

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 <212> PRT
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Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
 1 5 10 15

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 <211> 29
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Thr Val Ser Ser
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 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

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 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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Gly Thr Met Val Thr Val Ser Ser
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Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Ser Tyr Asp Leu Trp Ser Asn Ala Phe Asp Lys Trp Gly Gln
100 105 110

Gly Thr Met Val Thr Val Ser Ser
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Page 31

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

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Gly Thr Met Val Thr Val Ser Ser
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20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Ser Tyr Asp Phe Trp Ser Asn Ala Tyr Ala Asn Trp Gly Gln
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Gly Thr Met Val Thr Val Ser Ser

115

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 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ser Ser Tyr Asp Leu Trp Ser Tyr Ala Phe Glu Ile Trp Gly Gln
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 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

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Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Tyr
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Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ser
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Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro
100 105 110

Ser Val Phe Leu Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr
115 120 125

Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys
130 135 140

Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu
145 150 155 160

Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser
165 170 175

Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala
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Asn Arg Gly Glu Cys
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35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

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Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Ser Tyr Asp Phe Trp Ser Asn Ala Phe Asp Ile Trp Gly Gln
100 105 110

Gly Thr Asn Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
115 120 125

Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu
130 135 140

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
145 150 155 160

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
165 170 175

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
180 185 190

Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro
195 200 205

Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro
210 215 220

Cys Pro Ser Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe
225 230 235 240

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
245 250 255

Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val
260 265 270

Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
275 280 285

Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val
290 295 300

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
305 310 315 320

Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser
325 330 335

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
340 345 350

Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
355 360 365

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
370 375 380

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
385 390 395 400

Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp
405 410 415

Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
420 425 430

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
435 440 445

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Telephone Number: 781 863 1116

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Signature of Applicant, Agent, or Common Representative: William Soy

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